T.H.O.Y.

TIFFANY HOBBIES OF YPSILANTI

Advanced Model Rockets

Catalog No. 90-A

P.O. Box 467, Ypsilanti, MI 48197

Cover: Tiffany Hobbies Phoenix kit held by Tiffany Rau
All photographic work by Robert F. Rau

T.H.O.Y.

TIFFANY HOBBIES OF YPSILANTI

Greetings, Advanced Rocketeers,

Tiffany Hobbies of Ypsilanti would like to welcome you to our 1990 catalog. In this catalog you will find our company's collection of high-quality, high-tech kits and rocket parts. We have kits that are designed for the beginner as well as advanced rocketeers.

All Tiffany Hobbies kits come complete with the following:

- Heavy duty motor mounts
- Body tubes
- High quality launch lugs
- Nose cones
- Plywood fins
- Plywood centering rings
- Elastic shock cords
- Nylon parachutes
- Through-the-wall fin mounting
- Complete instructions

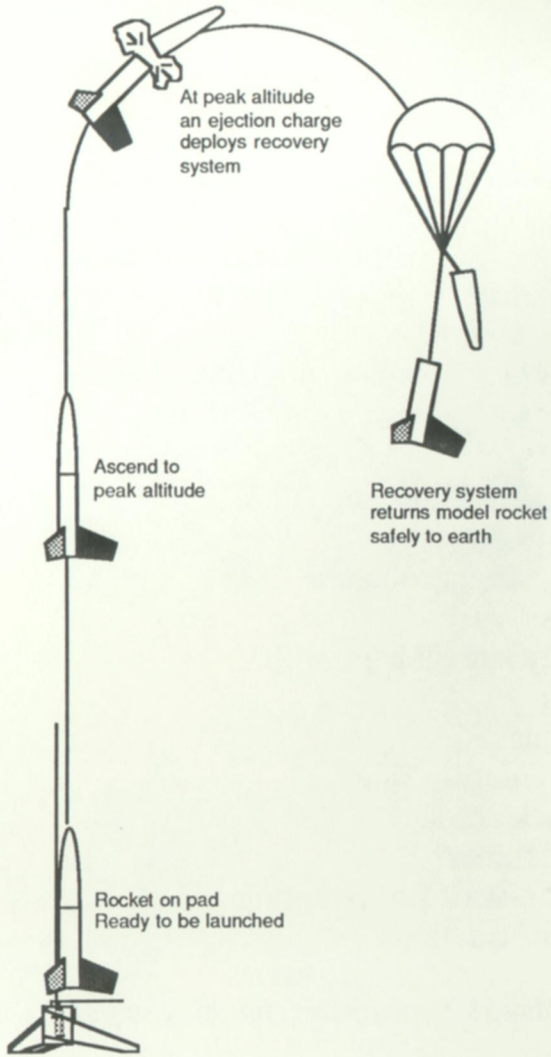
Not included in these kits are motors, finishing supplies, adhesives, and launch systems.

Thank you very much for your interest.

Richard S. Rau

Richard S. Rau
President

TYPICAL MODEL ROCKET FLIGHT



KEY TO SYMBOLS

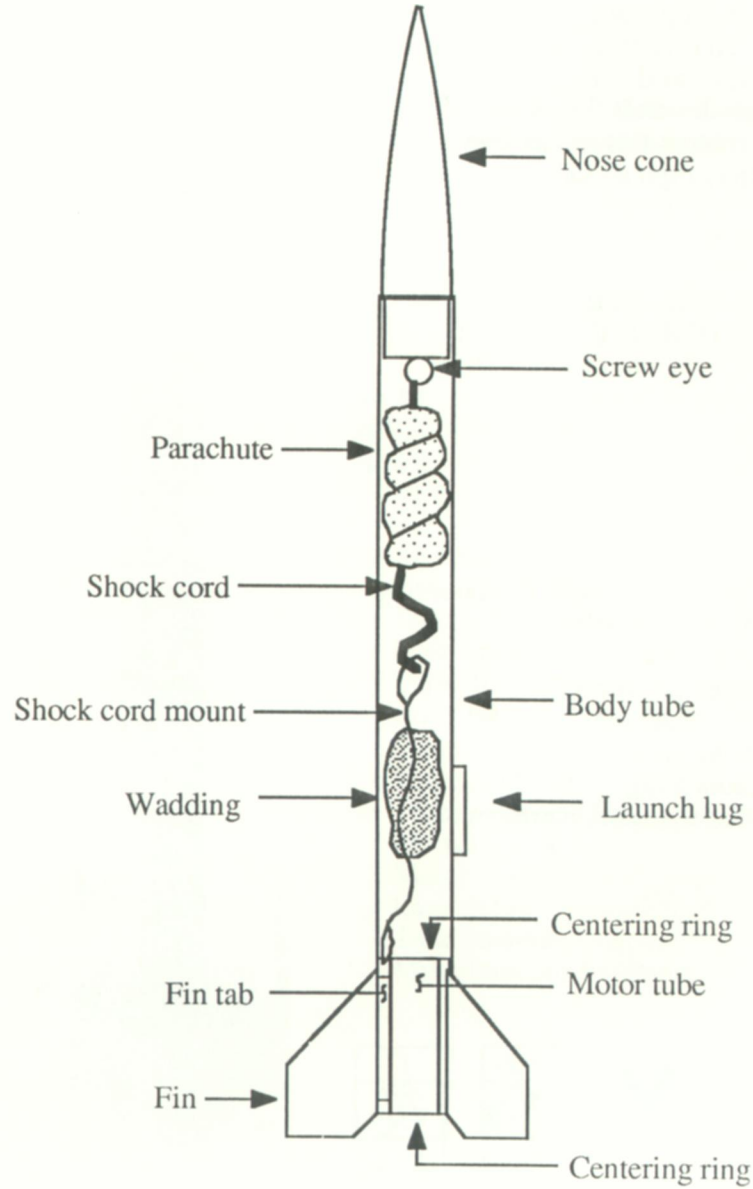
This indicates the size of launch lug included in the kit. (1/4 or 1/2)

This shows the size of the motor tube. (24mm, 29mm, 38mm, 54mm)

The clock tells you the average time it takes to build the kit.

The parachute and size that is included in the kit. (18", 24", 28", 36", 42")

TYPICAL ROCKET CONFIGURATION



Sparrow Hawk
PK-101

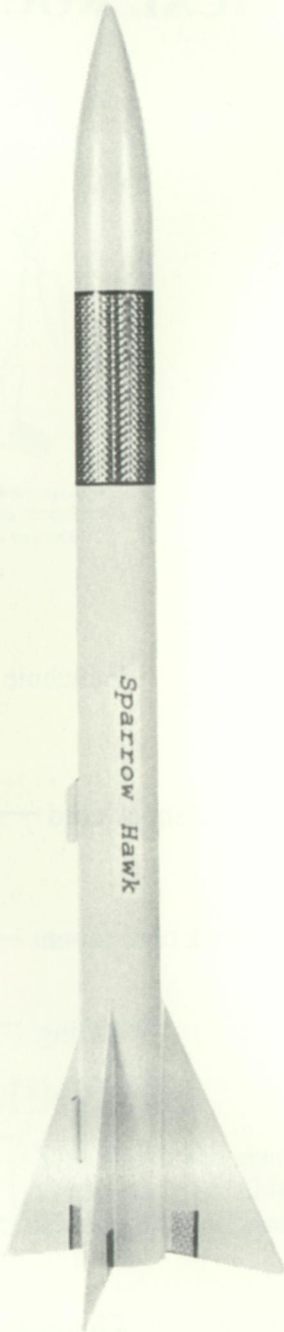
The **Sparrow Hawk** is a good kit for the beginner as well as the advanced rocketeer. The construction is quick and easy and features through-the-wall fin mounting. With larger motors this rocket may achieve extremely high altitudes.

Recommended Motors:
F25-6W, F50-6, F80-5, G25-5W, G40-7W, G80-7, H55-10W, H70-10W, H120-10

Approximate Weight	14 oz.
Length	41 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Plastic nose cone
- Body tube
- Three plywood fins
- 24" parachute
- Motor mount
- Launch lug
- Miscellaneous hardware.



Ibis
PK-201

The **Ibis** is a futuristic looking rocket. It will get attention wherever it is flown. It has a 10" payload section and a 29 mm motor mount.

Recommended Motors:
F25-6W, F50-6, F80-5, G25-5W, G40-7W, G80-7, H55-10W, H70-10W, H120-10

Approximate Weight	18 oz.
Length	50 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Nose cone
- Three fin cones
- Body tube
- Payload tube
- Three fin tubes
- Three plywood fins
- 28" parachute
- Motor mount
- Launch lug
- Tube coupler
- Miscellaneous hardware.

Peacock
PK-301

The spectators will stand in awe as the **Peacock** bolts into the sky. This is a very stable flying rocket that can achieve very high altitudes. This rocket is appropriate for beginners as well as the more advanced rocketeers.

Recommended Motors:
F25-6W, F50-6, F80-5, G25-5W, G40-7W, G80-7, H55-10W, H70-10W, H120-10

Approximate Weight	18 oz.
Length	50 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Nose cone
- Body tube
- Payload tube
- Six plywood fins
- 28" parachute
- Motor mount
- Launch lug
- Tube coupler
- Miscellaneous hardware.

Blue Jay
PK-401

The **Blue Jay** has been designed for large payloads. It's payload tube is 30" long. With a 1.52" motor mount this rocket can lift practically any payload imaginable. The Blue Jay has been designed for the experienced flyer.

Recommended Motors:
G345-8, H45-10W, H65-10W, H100-10, I95-10W

Approximate Weight	20 oz.
Length	70 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Plastic nose cones
- Two body tubes
- Three plywood fins
- 36" parachute
- Motor mount
- Launch lug
- Tube coupler
- Miscellaneous hardware.

Snipe
PK-501

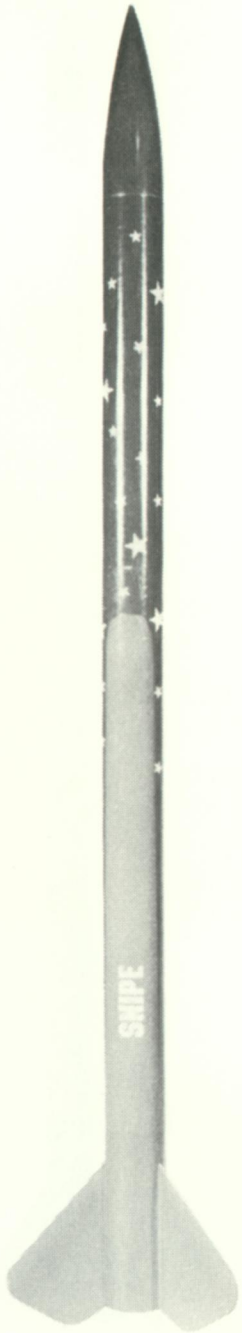
The **Snipe** is an easy to build rocket with great eye appeal. This high performance sport rocket is capable of achieving high altitudes with a payload. The Snipe uses three D size motors.

Recommended Motors:
(3) D12-3, (3)E15-7W, (3)E30-7, (3)F32-10W, (3)F44-10W, (3)F72-10, (3)G42-12W, (3)G55-15W

Approximate Weight	18 oz.
Length	56 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Plastic nose cone
- Two body tubes
- Three plywood fins
- 28" parachute
- Miscelleneous hardware.



Price List

TIFFANY HOBBIES OF YPSILANTI
P.O. Box 467, Ypsilanti, MI 48197

THOY

Tiffany Hobbies of Ypsilanti

P.O. Box 467, Ypsilanti, MI 48197 Phone 313-741-0847
Fax 313-741-0847

RETAIL PRICE LIST

Effective May 1, 1991

Name:
Address:
City, State:

Ship to:
Shipping Address:
City, State:

	Description	Part #	List	Qnt.	Total
	Sparrow Hawk	PK-101	28.95		
	Ibis	PK-201	39.95		
	Peacock	PK-301	39.95		
	Snipe	PK-501	37.95		
	Robin	PK-802	20.95		
	Wren	PK-902	21.95		
NEW	Wasp	PK-205	29.95		
	Phoenix	SK-103	61.95		
NEW	Night Hawk	PK-104	64.95		
NEW	Falcon	PK-105	62.95		
	Body Tubes	BT-1.5-17	1.95		
		BT-1.5-34	3.75		
		BT-2.6-10	1.35		
		BT-2.6-30	3.75		
		BT-3.9-11	2.15		
		BT-3.9-17	3.05		
		BT-3.9-34	5.95		
	Motor Tubes	MT-.95	2.40		
		MT-1.14	2.75		
		MT-1.52	3.75		
		MY-2.14	4.50		
	Launch Lug	LL-.25	0.50		
	Per Three	LL-.5	0.90		
	Tube Couplers	TC-1.52	0.90		
		TC-2.14	1.00		
		TC-2.6	1.40		
		TC-3.9	2.15		
NEW	Payload Couplers	PC-1.52	2.40		
NEW		PC-2.14	2.40		
NEW		PC-2.6	2.80		
NEW		PC-3.9	3.65		

Description	Part #	List	Qnt.	Total	
Nose Cone	PNC-1.5	6.95			
	PNC-2.6	8.95			
	PNC-3.9	13.95			
Centering	CR1-1.5-.95	0.80			
Rings	CR1-2.6-.95	0.95			
	CR3-2.6-.95	1.10			
	CR1-2.6-1.14	0.95			
	CR1-2.6-1.52	1.00			
	CR1-2.6-2.14	1.00			
	CR1-3.9-1.14	1.15			
	CR3-3.9-1.14	1.30			
	CR7-3.9-1.14	1.40			
	CR1-3.9-1.52	1.20			
	CR1-3.9-2.14	1.20			
Parachute	P-18	5.50			
	P-24	6.50			
	P-28	7.75			
	P-36	11.50			
	P-44	15.50			
Shock Cord	SC-.25	0.65			
Per yd.	SC-.375	0.77			NEW
	SC-.5	0.90			
	SC-.75	1.25			NEW
	SC-1	1.55			
Screw Eye	SE-1	0.50			
Launch Pad	LP-102	24.95			
Launch Rod	LR-102	14.95			
	LR-202	32.95			
Motor Adapter	MA-1.14-.9	1.55			
	MA-1.52-1.14	2.25			
	MA-2.14-1.14	2.75			
	MA-2.14-1.52	3.00			

* Note prices subject to change without notice.

Minimum order is $15.00

Subtotal	
Michigan Sales Tax	
Shipping & Handling	
Total	

Ordering Information

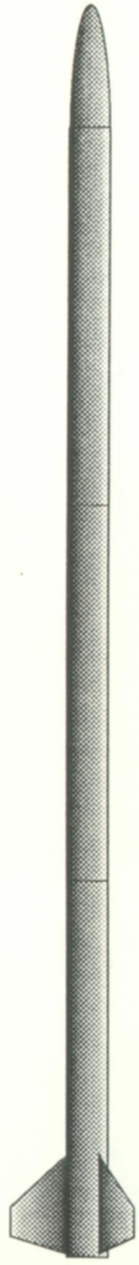
Minimum order is $ 10.00

Please use our order form when making an order.
New order forms will be sent with each purchase.

Shipping and Handling

$ 10.00 - $ 20.00	Add $ 4.50
$ 20.01 - $ 40.00	Add $ 5.75
$ 40.01 - $ 70.00	Add $ 7.75
$ 70.01 - $ 140.00	Add $10.00
$ 140.01 and up	Add 8 %

Please make checks payable to Tiffany Hobbies of Ypsilanti.



Crane
PK-602

The **Crane** is made for lifting heavy payloads. The booster has been lengthened to accept a large parachute. It has been designed for the experienced flyer due to the extremely high altitudes this rocket can achieve.

Recommended Motors:
H35-10, I65-10W

Approximate Weight	26 oz.
Length	100 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Plastic nose cone
- Two body tubes
- One payload tube
- Three plywood fins
- 36" parachute
- 2.125" motor mount
- Launch lug
- Tube coupler
- Miscellaneous hardware.

Robin
PK-802

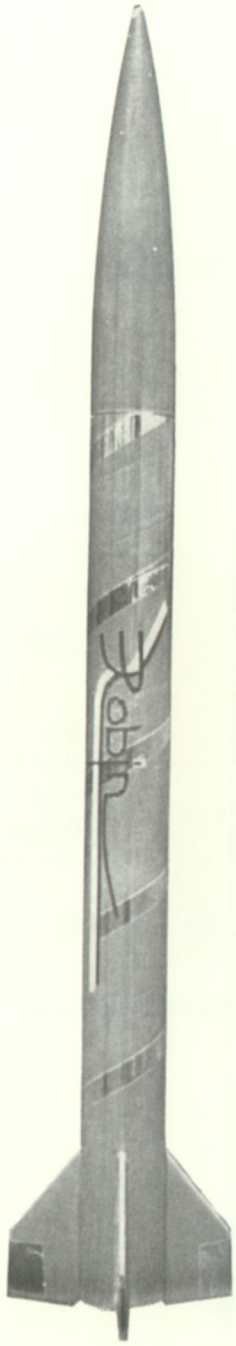
Fun to build and fun to fly. Features fast assembly, sporty appearance, and economical D size motors.

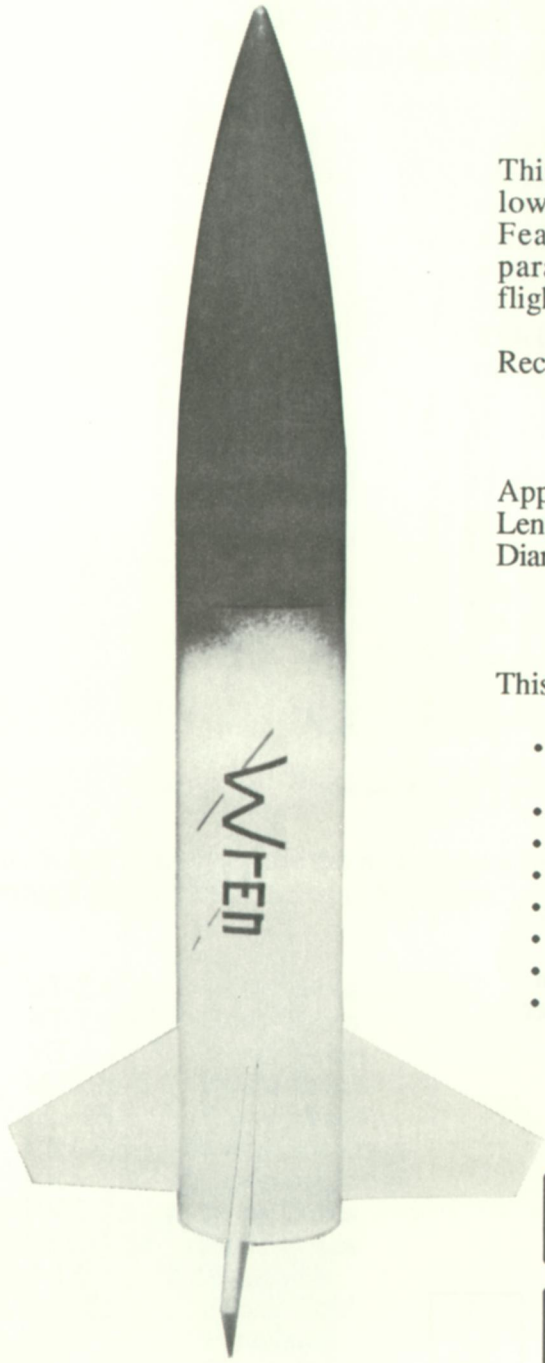
Recommended Motors:
D12-5, E15-7W, E30-7,
F32-10W, F44-10W

Approximate Weight	9 oz.
Length	26 in.
Diameter	1.5 in.

This kit contains:

- Through-the-wall fin mounting
- Plastic nose cone
- Body tube
- Three plywood fins
- 18" parachute
- Motor mount
- Launch lug
- Miscellaneous hardware.





Wren
PK-902

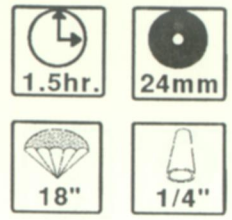
This sporty little flier uses low-cost D size motors. Features fast assembly, parachute recovery, and flight after flight fun.

Recommended Motors:
D12-5, E15-7W,
E30-7, E50-5

Approximate Weight	8 oz.
Length	19 in.
Diameter	2.6 in.

This kit contains:

- Through-the-wall fin mounting
- Plastic nose cone
- Body tube
- Three plywood fins
- 18" parachute
- Motor mount
- Launch lug
- Miscellaneous hardware



Phoenix
SK-103

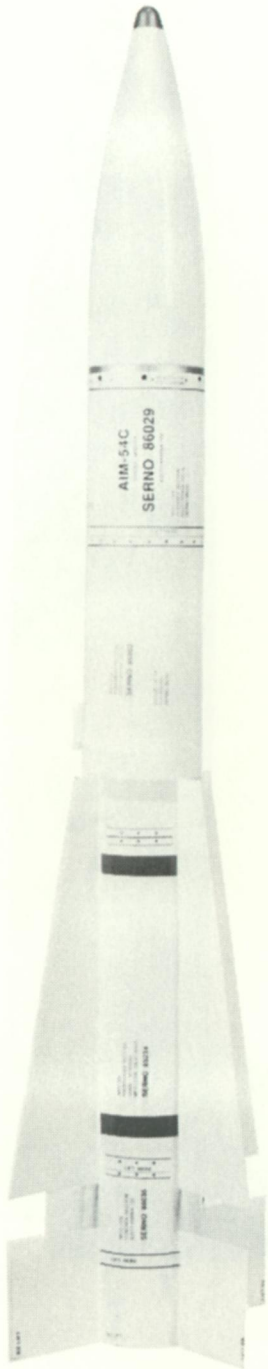
The **Phoenix** is a semi-scale model of a Navy air-to-air supersonic missile. Features 38mm motor mount with a 29mm adapter, 36" parachute, and as all THOY kits through-the-wall fin mounting.

Recommended Motors:
G125-5, H55-6, H70-6,
H120-6, H100-10

Approximate Weight	45oz.
Length	46 in.
Diameter	3.9 in.

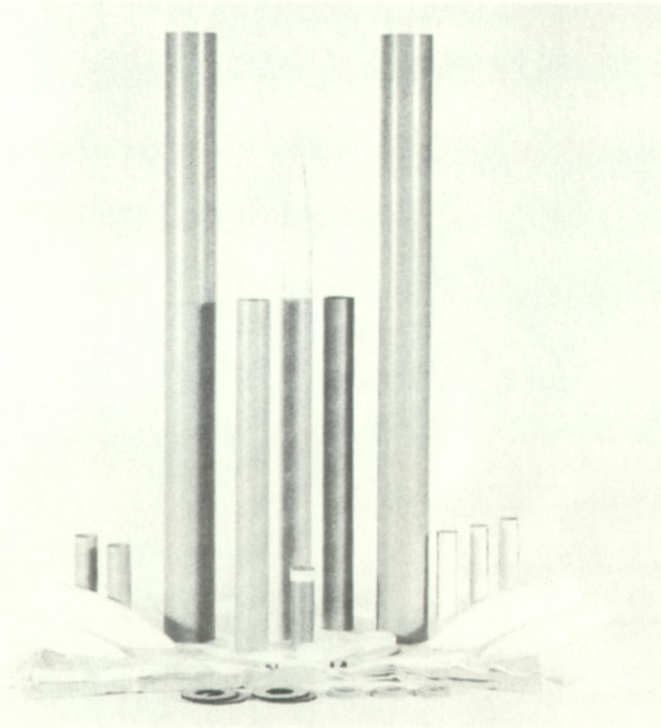
This kit contains:

- Through-the-wall fin mounting
- Plastic nose cone
- Body tube
- Eight plywood fins
- 36" parachute
- 38mm motor mount
- 29mm motor adapter
- 1/2" Launch lug
- Miscellaneous hardware.



PLAN-IT PAK

BUILD YOUR OWN AND SAVE $$



The Plan-it Pak is provided for the rocket experimenter. This package contains enough parts to construct upto 5 rockets.

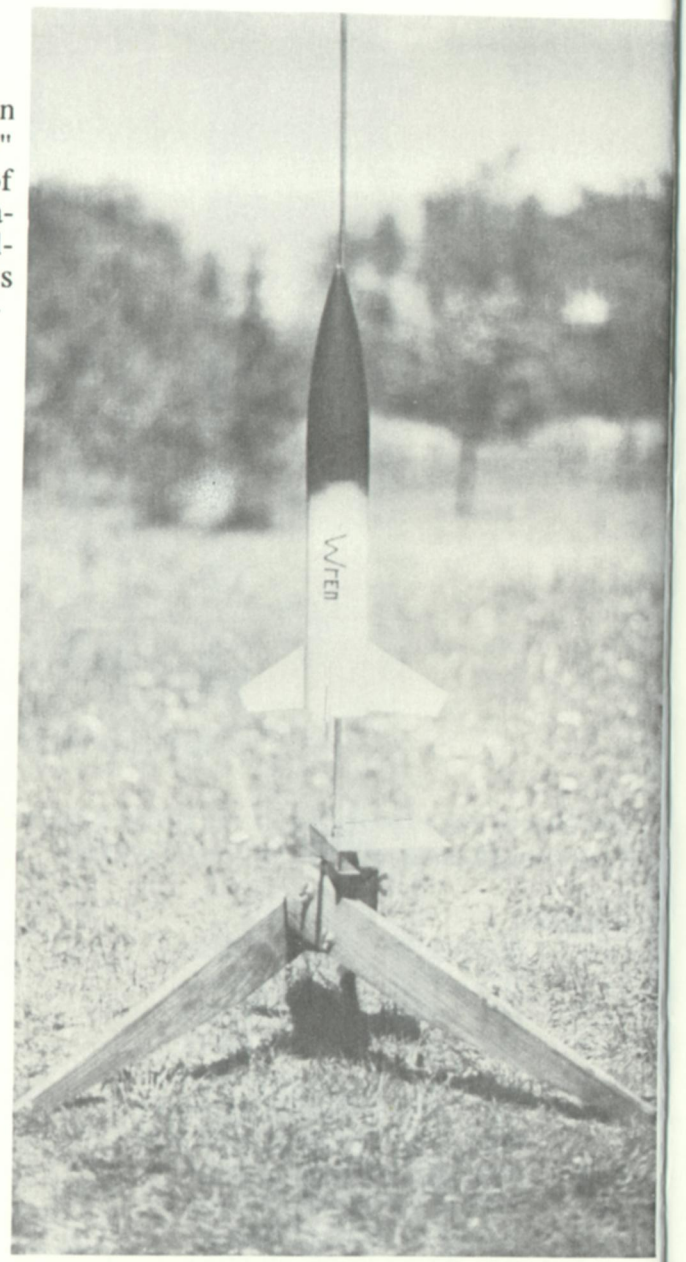
Contents:

• 2	BT-2.6-30	Body Tubes
• 3	BT-1.5-17	Body Tubes
• 2	MT-1.14-5	Motor Tubes
• 3	MT-.95-4	Motor Tubes
• 5	LL-.25	Launch Lugs
• 4	CR1-2.6-1.14	Centering Rings
• 6	CR1-1.52-.95	Centering Rings
• 2	PNC-2.6	Nose Cones
• 3	PNC-1.52	Nose Cones
• 1	P-18	Parachutes
• 9yd.	SC-.25	Shock Cord
• 1	P-24	Parachutes
• 12yd.	SC-.5	Shock Cord
• 1	MA-1.14-.9	Motor Adapter

Launch Pad
LP-102

This launch pad has been designed for a 1/4" or 1/2" launch rod. The angle of the launch rod is adjustable. The legs can be collapsed for storage. Comes with a 5" x 7" blast deflector.

Note: Rocket and Launch rod, sold separately

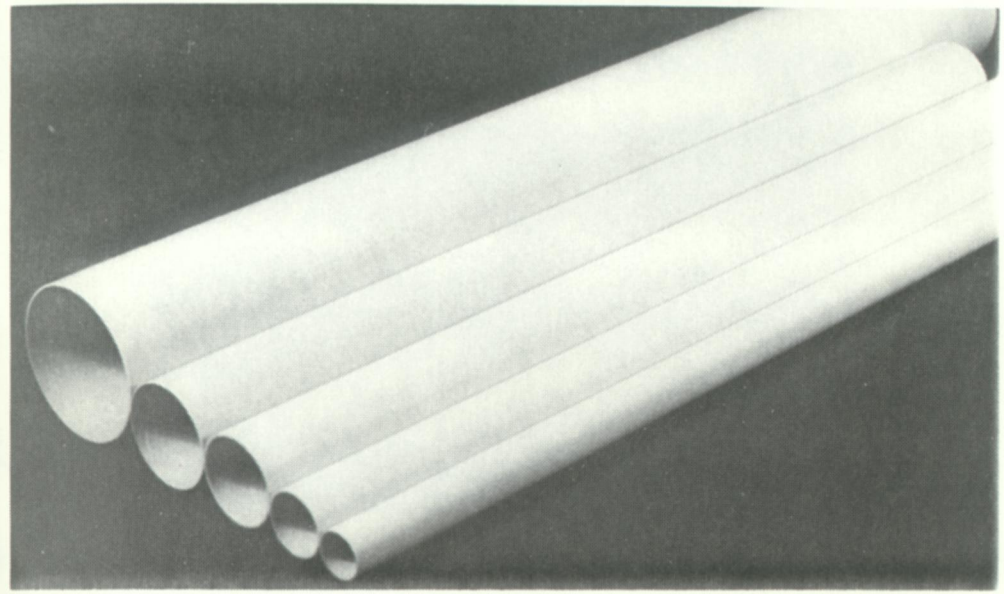


Stainless Steel Launch Rod
1/2" or 1/4"

1/4"x6' Launch rod
LR-.25

1/2"x6' Launch rod
LR-.50

BUILDING MATERIALS



High Strength Body Tubes

High strength and light-weight body tubes made to the rigid specifications needed for High Power Rocketry.

Product Number	Length	Inside Diameter	Outside Diameter	Wall Thickness
BT-1.5-34	34"	1.52"	1.63"	.055"
BT-1.5-17	17"	1.52"	1.63"	.055"
BT-2.6-10	10"	2.560"	2.630"	.035"
BT-2.6-15	15"	2.560"	2.630"	.035"
BT-2.6-30	30"	2.560"	2.630"	.035"
BT-3.9-11	11"	3.898"	3.998"	.050"
BT-3.9-34	34"	3.898"	3.998"	.050"

High Strength Motor Tubes

High strength, thick wall tubes designed to be reliable motor mounts.

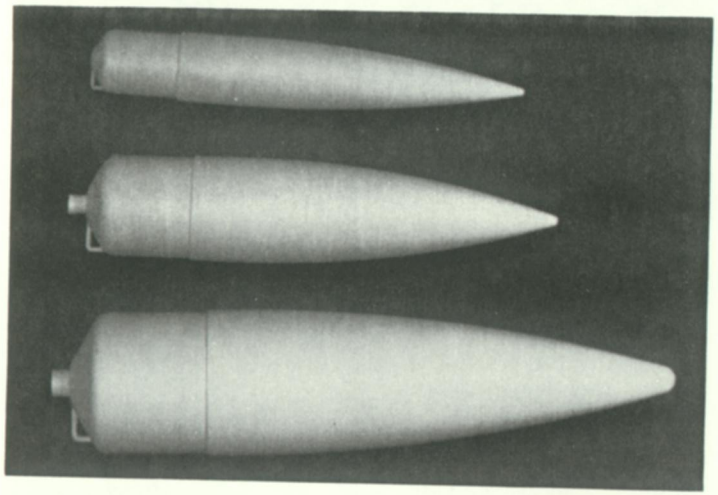
Product Number	Length	Inside Diameter	Wall Thickness	Fits Motor Mount
MT-.95	34"	.95"	.025"	15/16", 24mm
MT-1.14	34"	1.14"	.035"	1 1/8", 29mm
MT-1.52	34"	1.52"	.055"	1 1/2", 38mm
MT-2.14	34"	2.14"	.060"	2 1/8", 54mm

Launch Lugs

These tubes are made with a smooth finish.

Product Number	Length	Fits Launch Rod Size
LL-.25	4"	1/4"
LL-.5	6"	1/2"

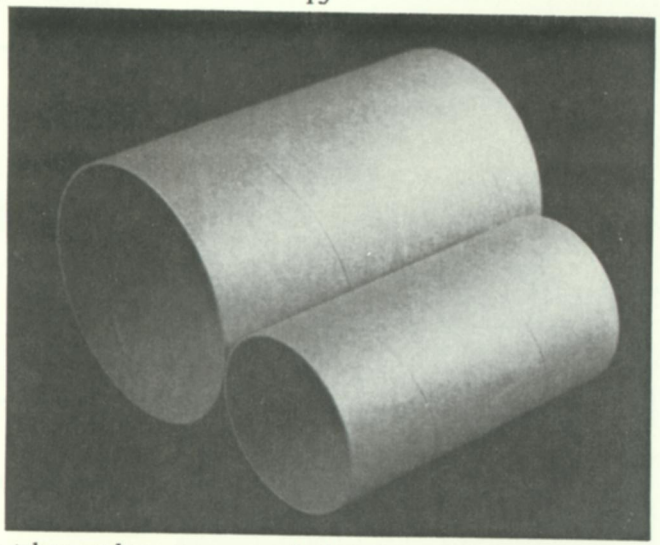
BUILDING MATERIALS



Nose Cones

Durable one piece, plastic, nose cones.

Product Number	Length	Fits Inside Body Tube
PNC-1.5	8"	BT-1.5
PNC-2.6	9"	BT-2.6
PNC-3.9	13"	BT-3.9



Tube Couplers

Smoothly fitting tube couplers connect our body tubes together.

Product Number	Length	Fits Inside Body Tube
TC-1.5	4"	BT-1.5
TC-2.14	5"	MT-2.14
TC-2.6	5"	BT-2.6
TC-3.9	6"	BT-3.9

BUILDING MATERIALS

Centering Rings

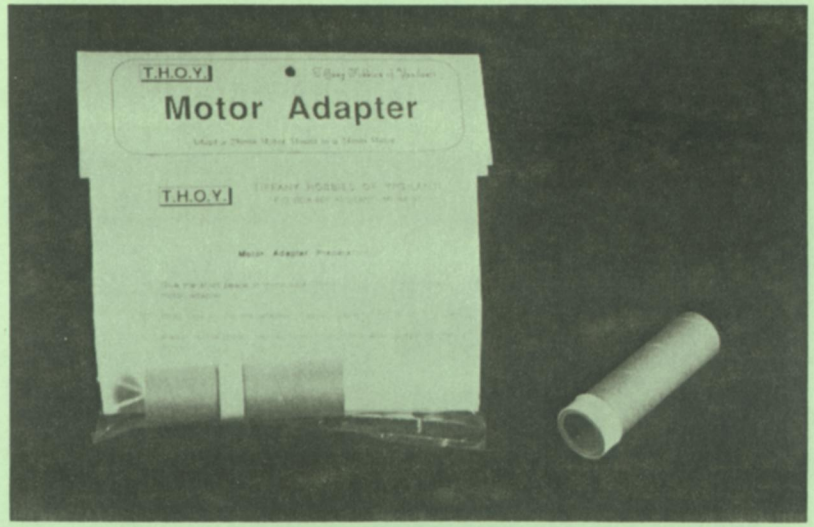
Centering rings are made from 1/8" aircraft plywood for single and multiple motor rockets.

Product Number	Fits Body Tube Size	Fits Motor Size	Number of Motor
CR1-1.5-.95	BT-1.5	24mm	1
CR1-2.6-.95	BT-2.6	24mm	1
CR1-2.6-1.14	BT-2.6	29mm	1
CR1-2.6-1.52	BT-2.6	38mm	1
CR1-2.6-2.14	BT-2.6	54mm	1
CR3-2.6-.95	BT-2.6	24mm	3
CR1-3.9-1.14	BT-3.9	29mm	1
CR1-3.9-1.52	BT-3.9	38mm	1
CR1-3.9-2.14	BT-3.9	54mm	1

Parachutes

Nylon parachutes with high shroud line count for a good canopy shape.

Product Number	Size	Number of Shroud Lines
P-18	18"	8
P-24	24"	8
P-28	28"	8
P-36	36"	16
P-42	42"	16

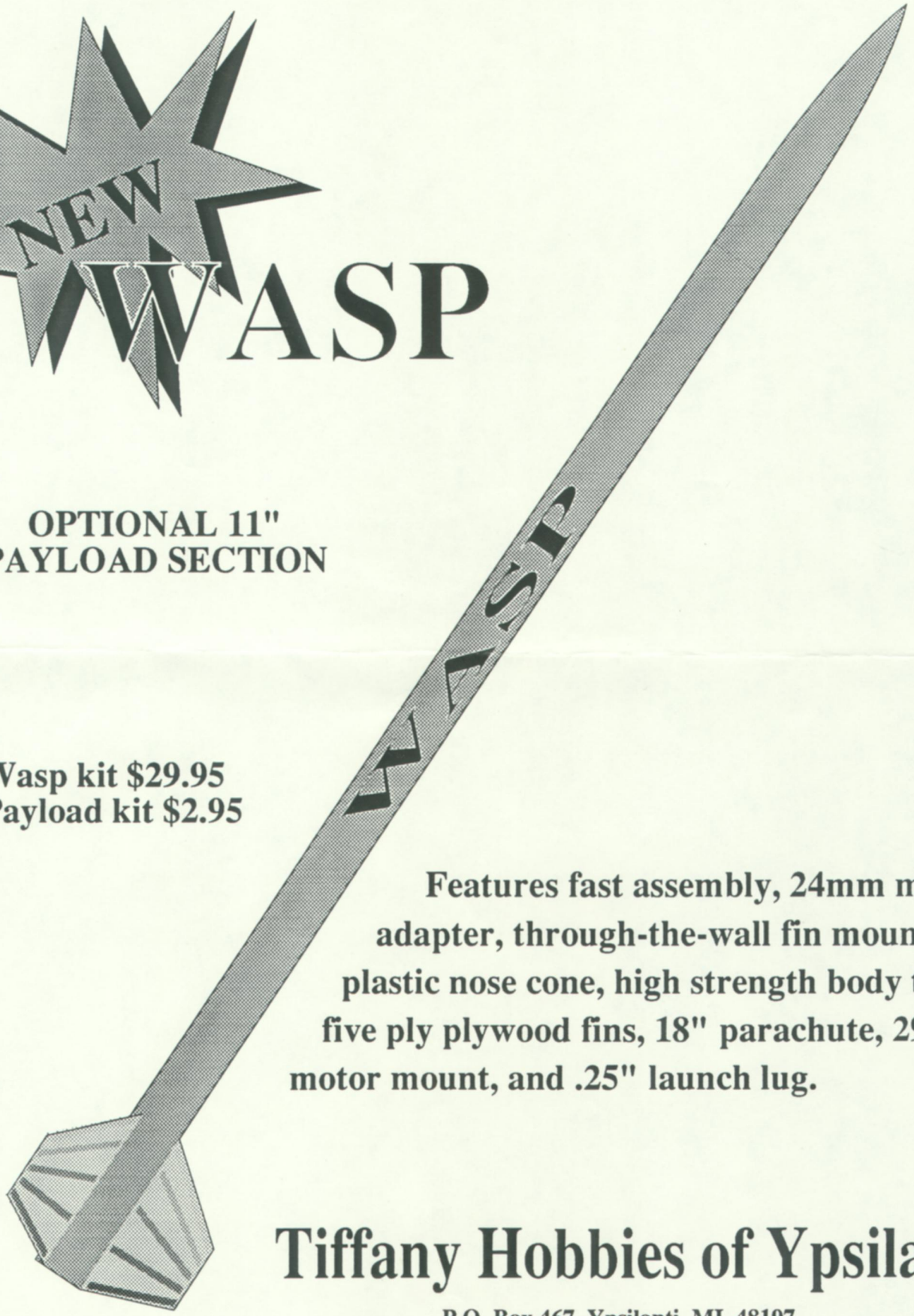


Motor Adapter

Product Number	Motor Size	Fits Motor Tube
MA-1.14-.9	24mm/D Size	MT-1.14
MA-1.52-1.14	29mm	MT-1.52
MA-2.14-1.14	29mm	MT-2.14
MA-2.14-1.52	38mm	MT-2.14

THOY

NEW WASP



OPTIONAL 11" PAYLOAD SECTION

Wasp kit $29.95
Payload kit $2.95

Features fast assembly, 24mm motor adapter, through-the-wall fin mounting, plastic nose cone, high strength body tube, five ply plywood fins, 18" parachute, 29mm motor mount, and .25" launch lug.

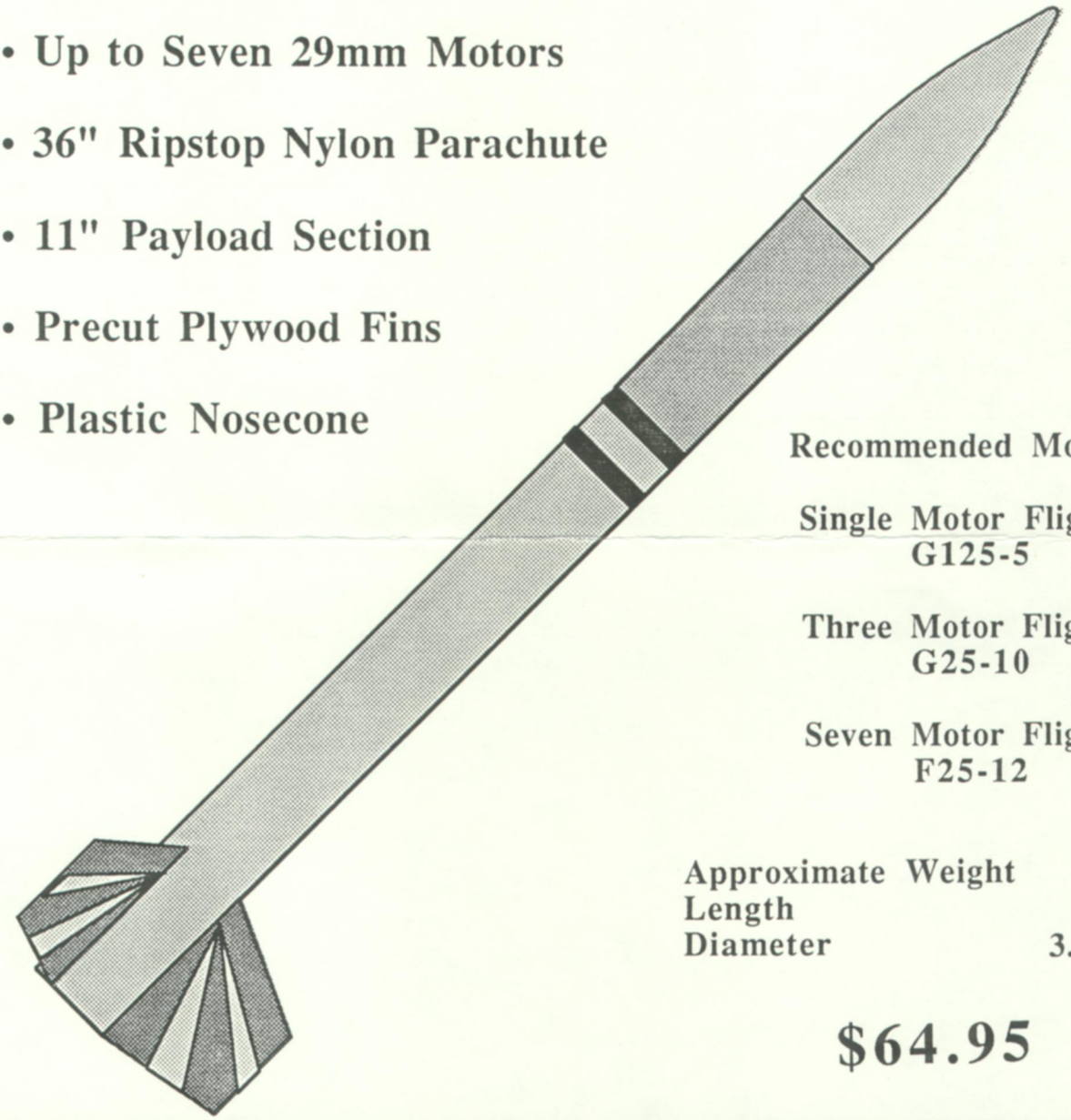
Tiffany Hobbies of Ypsilani

P.O. Box 467, Ypsilanti, MI 48197

NEW

Night Hawk

- Diameter 4", Length 58"
- Up to Seven 29mm Motors
- 36" Ripstop Nylon Parachute
- 11" Payload Section
- Precut Plywood Fins
- Plastic Nosecone



Recommended Motors:

Single Motor Flights:
G125-5

Three Motor Flights:
G25-10

Seven Motor Flights:
F25-12

Approximate Weight	31 oz
Length	58 in
Diameter	3.998 in

$64.95

The Night Hawk may use up to seven motors for peak performance. The kit features fast assembly, seven motor tubes (three with ejection and four pluged), 36" Ripstop Nylon Parachute, Payload Section, Plastic Nosecone, 1/2" Launch Lug, and Precut Plywood fins.

T.H.O.Y. **TIFFANY HOBBIES OF YPSILANTI**

P.O. Box 467, Ypsilanti, MI 48197

Catalog #_____ Price List #_____ Date_____

Customer Name_____ Telephone # (_____) _____

Address _____

City _____ State _____ Zip Code _____

Age _____ NAR # _____ Tripoli Member Number _____

Part #	Quantity	Product Description	Cost	Total
		Subtotal		
		4% Sales Tax (Michigan Only)		
		Shipping & Handling		
		Total		

Please read and sign this policy below

Tiffany Hobbies of Ypsilanti will not be held responsible for any personal injury or property damage resulting from the use or misuse of its products. Since Tiffany Hobbies cannot control the use of its products once they have been sold, the buyer will assume all risks and liabilities of Tiffany Hobbies products once purchased.

I have read and understood the policy above. *(Orders cannot be shipped without a signature.)*

Signature_____ Date _____

T.H.O.Y.

Tiffany Hobbies of Ypsilanti

TO: